EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	mus adj muschulus adj retinal adj s adj antigen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:04
L2	1	mus adj musculus adj retinal adj s adj antigen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:05
L3	0	Zack-donald-$.in. and Hackman-abigail-$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:07
L4	0	Zack-donald.in. and Hackman-abigail.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:11
L5	0	Zack-donald.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:11
L6	1	Zack-d.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:12
L7	0	zack-donald.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:12
L8	13	zack-d$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:12

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EAST Search History

L9	0	L8 and Hackman-A$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:13
L10	0	L8 and Hackan-A$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:13
L11	3	L8 and Hackam-A$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:14
L12	63	retinal adj s adj antigen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:15
L13	1	L12 and neuronal adj cell adj death	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:15

4/5/2006 5:17:34 PM
C:\Documents and Settings\Mgemeniano1\My Documents\EAST\Workspaces\mus musculus retinal S antigen.wsp

Page 2

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	63	retinal adj s adj antigen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:27
L2	63	L1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:27
L3	1	L1 and SAG	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:27
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S1	0	mus adj muschulus adj retinal adj s adj antigen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:04
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S4	0	Zack-donald.in. and Hackman-abigail.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:11

EAST Search History

S5	0	Zack-donald.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:11
S6	1	Zack-d.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:12
S7	0	zack-donald.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:12
S8	13	zack-d$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:12
S9	0	S8 and Hackman-A$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:13
S10	0	S8 and Hackan-A$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:13
S11	3	S8 and Hackam-A$.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:14
S12	63	retinal adj s adj antigen	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:27

S13	1	S12 and neuronal adj cell adj death	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/04/05 17:15

4/5/2006 5:28:25 PM
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Page 3

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(FILE 'HOME' ENTERED AT 17:19:08 ON 05 APR 2006)

       FILE 'BIOSIS, MEDLINE, SCISEARCH, EMBASE' ENTERED AT 17:19:58 ON 05 APR
       2006
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L2            0 SEA MUS MUSCULUS RETINAL S ANTIGEN
L3         1133 SEA RETINAL S ANTIGEN
L4         5524 SEA SAG
L5           27 SEA L4 AND L3
                D 1-27 TI
                SET LINE 250
                SET DETAIL OFF
                SET LINE LOGIN
                SET DETAIL LOGIN
                D L5 ABS
```

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All: 1   Current Only: 1   Genes Genomes: 1   SNP GeneView: 1

☐ **1: Sag   retinal S-antigen** [*Mus musculus*]
GeneID: 20215 Primary source: MGI:98227   updated 03-Mar-2006

Summary

Official Symbol: Sag and Name: retinal S-antigen **provided by** Mouse Genome Informatics
Gene type: protein coding
Gene name: Sag
Gene description: retinal S-antigen
RefSeq status: Validated
Organism: *Mus musculus*
Lineage: *Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi; Muroidea; Muridae; Murinae; Mus*
Gene aliases: Irbp; A930001K18Rik

Genomic regions, transcripts, and products

RefSeq below

NC_000067.3

[87704768 ▶   [87746245 ▶

5' ⊢————————————————⊣ 3'

NM_009118.2 ⊢—┼——┼——■——┼——┼—┼┼——┼——┼——┼——┼——┼┼⊣ NP_033144

■ – coding region   ■ – untranslated region

Genomic context   See Sag in MapViewer

chromosome: 1; **Locations:** 1 D; 1 53.6 cM

[87521284 ▶   [87912182 ▶

InpP5d ═══════════⇒ Rtg1611 ══════⇒ D9kd ═══════⇒ Usp40 ⇐═══
                                        Sag ══⇒

Bibliography   Gene References into Function (GeneRIF):   **Submit**

PubMed links

General gene information

Markers
 M24086(e-PCR) (Links: UniSTS:124943)
 D9Mit34.1(e-PCR) (Links: UniSTS:131903)
  Alternate name: MGI:706037

Sidebar:
Entre
Table
Summary
Genomic re
Genomic cc
Bibliograph
General ge
General prc
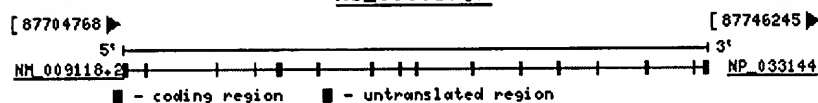Reference :
Related Se
Additional L

NIH cDNA ‹
Conserved
Genome
GEO Profil‹
HomoloGer
Map Viewe
Nucleotide
Full text in l
Protein
PubMed
SNP
SNP: Geno
SNP: Gene
Taxonomy
UniSTS
Ensembl
Evidence V
Gene Expr‹
KEGG
MGC
MGI
ModelMak‹
UCSC
UniGene
LinkOut

Entr‹
F
Sul

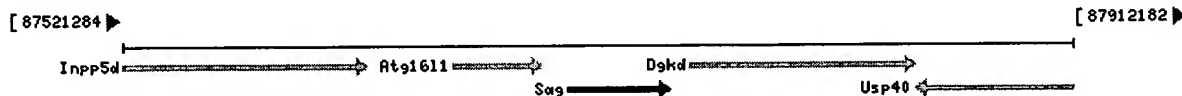**M24086**(e-PCR) (Links: UniSTS:158822)
  Alternate name: 121752
px-50g7(e-PCR) (Links: UniSTS:257891)

GeneOntology
  Provided by MGI

Function	Evidence
calcium ion binding	IEA
Process	
sensory perception	IEA
signal transduction	IEA
visual perception	IEA

Homology:
Human, Rat
  Map Viewer

General protein information

Name: retinal S-antigen

NCBI Reference Sequences (RefSeq)

  mRNA Sequence NM_009118
    Source Sequence AC102630,M24086
    Product NP_033144 retinal S-antigen
    Conserved Domains (2) summary
      pfam02752: Arrestin_C; Arrestin (or S-antigen), C-terminal domain
        Location: 200 - 361 Blast Score: 205
      pfam00339: Arrestin_N; Arrestin (or S-antigen), N-terminal domain
        Location: 40 - 153 Blast Score: 202

Related Sequences

Nucleotide		Protein	Strain
mRNA	AK044214	BAC31820	C57BL/6J
mRNA	AK053278	BAC35331	C57BL/6J
mRNA	AK143098	BAE25268	C57BL/6J
mRNA	AK149299	BAE28798	C57BL/6J
mRNA	AY651760	AAV54097	C57BL/6
mRNA	BC016498	AAH16498	
mRNA	BC026984	None	
mRNA	M24086	AAA40090	C57BL/6J

Protein Accession Links
P20443   GenPept UniProt

Additional Links

  Gene Expression Database (GXD) at MGI MGI:98227
  UniGene Mm.1276